Model Penguatan Baja HSLA-Nb Akibat Deformasi Panas pada Fasa Austenit

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Abstrak

During thermo-mechanical treatment process of High Strength Low Alley Steel, strengthening is occurred during finishing deformation due to pre precipitation hardening formed after roughing. Using HSLA steel containing 0.031% Nb, strengthening of this steel during finishing deformation at temperature of 900?C under strain of 0.5 is evaluated in terms of stress at 0.05% strain. Data results shows that the strengthening of this steel due to roughing deformation can be described into empirical model as a function activation energy (QM) and roughing deformation temperature.